

Mechanical Design Engineer

The Mechanical Equipment Design (CMM) Department is responsible for studies, technical specifications and the management of suppliers of mechanical equipment (pumps, handling equipment, process contracts, primary circuit, pressure equipment) for EPR nuclear islands at all stages of the projects (Basic Design, Feasibility, Tender, Specification, Implementation).

In this department, the Design Office of the Pressurised Equipment group works on exchangers, tanks, reservoirs and filters for the systems of the entire nuclear island, with the exception of the primary circuit.

The Mechanical Design Engineer is responsible for the technical monitoring of one or more contracts for exchangers, reservoirs, etc.

Working in support of the contract managers, his or her role is to:

- Check the design documents (dimensioning and detailed mechanical/thermomechanical design) issued by the suppliers,
- Check the technical manufacturing documentation issued by the suppliers and assist in the resolution of manufacturing anomalies.

For new reactor projects, he/she is required to:

- Carry out pre-dimensioning measurements on reservoirs and exchangers as part of new projects in accordance with regulations (PED, ESPN) and construction codes (RCC-M, EN 13445).
- Carry out engineering and mechanical studies (specifications, finite element or other calculations, analyses of results)
- Provide expert advice on calculations related to unresolved design issues in support of the project manager/contract manager/construction site.

This position requires previous experience in nuclear engineering, particularly in the specification or supervision of mechanical equipment contracts.

It requires mechanical design skills in relation to pressure equipment and technical knowledge of boiler making, metallurgy and welding.

The Mechanical Design Engineer works with software such as ANSYS and ECHTERM (or equivalent).

Technical manager

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Within this department, the technical manager is responsible for various items of equipment such as exchangers, tanks, pumps, handling equipment, reservoirs and system filters for the entire nuclear island.

The technical manager is responsible for research, technical specifications and the management of suppliers of mechanical equipment.

Within the department's groups, the contract manager:

- Monitors the technical interface with the suppliers,
- Organises the monitoring of studies,
- Ensures the handling of discrepancies and deviations, oversees contractual issues, and manages interfaces with other departments.

The technical manager may be required to take responsibility for the cross-functional management of engineering activities on behalf of the technical project management.

This position requires good business management skills and the ability to coordinate the various departments.

It requires a broad knowledge of mechanics as well as of other disciplines based on a result-oriented analysis.

Cross-functional manager

The Mechanical Equipment Design (CMM) department is responsible for studies, technical specifications and the management of suppliers of mechanical equipment (pumps, handling equipment, process contracts, primary circuit, pressure equipment) for EPR nuclear islands at all stages of the projects (Basic Design, Feasibility, Tender, Specification, Implementation).

Within this department and reporting to the head of the CMM department, the role of cross-functional manager is part of the [Excel plan](#) (excellence plan for the nuclear industry), which aims to transform engineering in order to prepare for and meet the future challenges of the new nuclear industry.

The cross functional manager is in charge of cross-functional tasks for the department, particularly in the context of Excell. He/she will:

- Manage and monitor the completion of the various stages, as well as the implementation of related actions until their completion.
- Test these actions and have them tested.

From time to time, the cross-functional manager will be required to implement improvement actions for the department, set up task forces or deal with departmental work-related issues.

This position requires good experience in business management and the ability to coordinate the personnel involved.

It requires knowledge in mechanics but also in the various related trades, the main objective being to transform Edvance's engineering in order to prepare for our future challenges.

The engineer in charge of these cross-functional activities for the department will actively and in a practical way contribute to the implementation of the Excell plan.